

What Is Claimed Is:

1. An electronic whiteboard with a built-in electromagnetic induction layer of wire lattice comprising: a writing input portion, a covering frame portion formed around the periphery of the writing input portion, and a control circuit; wherein the writing input portion has multiple layers and is enclosed in the frame; the writing input portion includes a surface writing layer, an underlayer and an input induction layer which is formed between the surface writing layer and the underlayer, and is connected to the control circuit by its output, characterized in that the induction layer is a wire lattice winded and interlaced separately by wires along the X and Y axes, the wires are insulated with each other at the crossing points, and an space formed within each lattice unit constitutes one induction cell.
2. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, wherein the area of said induction layer is the same as or smaller than those of the writing layer and the underlayer, i.e., the induction layer is entirely or partially sandwiched between the writing layer and the underlayer.
3. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 2, wherein the induction layer which is smaller than the area of the writing layer and the underlayer is positioned at one side or in the center of the writing scope of the writing input portion.
4. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, wherein a shielding layer is provided behind the induction layer in order to enhance the anti-interference ability of the device.
5. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, 2, 3 or 4, wherein a buffering layer is provided between the induction layer and the underlayer, or between the induction layer and the shielding layer.

6. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, wherein the wires are entirely covered or coated by an insulating layer on the surface.
7. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 6, wherein the wires are enameled wires.
8. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, 2, 3, 6 or 7, wherein more than one induction layer are overlaid together and the induction cells on each induction layer are interlaced one another.
9. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 8, wherein the induction cells on each induction layer are at the same or different intervals.
10. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, wherein the wire lattice is attached and fixed on an insulating membrane by thermal pressing and thermal melting, so as to form a wire electromagnetic induction layer with the insulating membrane.
11. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 10, wherein the insulating membrane is made of film material.
12. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 10, wherein more than one induction layer are overlaid together, and the induction cells on each induction layer are interlaced one another.
13. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 10, wherein the induction cells on each induction layer are at the same or different intervals.
14. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 10, wherein the wire electromagnetic induction layer with the insulating membrane is made up of multiple pieces of the wire

electromagnetic induction layer assembled together with each other, a wire education electrical connection means along the X or Y axis is provided on each piece of wire lattice electromagnetic induction layer, and said each piece of wire lattice electromagnetic induction layer is connected by the wire education electrical connection means.

15. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 14, wherein said connection means is a pin-type connection means or a flexible printed wiring means, or a PIN-PIN connection means, or a welding spot (VGA) thermal-melting connection means, or an ultrasonic welding device, or a solder-plate welding device, or a puncturing connection means.

16. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, wherein said control circuit includes circuits for signal amplification, filtering acquisition and data processing, and is provided with signal output control circuit and/or storing device.

17. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 16, wherein said signal output device comprises electrical cable with standard computer data interface or wireless data switching means, i.e. radio frequency transceiver.

18. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 17, wherein said signal output device connects with a computer and/or a printer, or an external data storing device, or connects with a telephone line by an auxiliary modem.

19. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, 2, 3, 6, 7, 10, 16, 17 or 18, wherein the control circuit and the induction layer are directly connected in a whole, components of the control circuit are positioned on the output end of the wire lattice, and the control circuit is formed in the body of the electronic whiteboard.

20. The electronic whiteboard with a built-in electromagnetic induction layer of

wire lattice according to claim 1, 2, 3, 6, 7, 10, 16, 17 or 18, wherein the components of the control circuit are provided on a printed wiring board which is separated from the induction layer; the output end of the wire lattice of the induction layer is connected to the corresponding input terminal on the printed circuit board by means of pressure-connection, plug-in connection or welding connection.

21. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 20, wherein the output end of the wire lattice of the induction layer is formed between a hard pressing strip and the printed circuit board; a buffering layer is provided between the hard pressing strip and the output end of the wire lattice; and the hard pressing strip, the buffering layer and the output end of the wire lattice are overlaid on the printed circuit board by means of the screwing-conjunction; the output end of the wire lattice is connected to the corresponding input terminal on the printed circuit board.

22. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 20, wherein the control circuit is integrated with the body of the electronic whiteboard, and is positioned in the covering frame that is around the periphery of the body.

23. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 20, wherein the control circuit is installed outside the body, and connected to the body through the electrical connection means, the output of the wire lattice of the induction layer is connected with the output interface of the induction layer by means of pressure-connection, plug-in connection or welding-connection, and an interface matching the electrical connection means of the induction layer is provided on the control circuit.

24. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 23, wherein the output end of the wire lattice of the induction layer is formed between the hard pressing strip and the electrical connection means; the buffering layer is provided between the hard pressing

strip and the output end of the wire lattice; the hard pressing strip, the buffering layer and the output end of the wire lattice are overlaid on the electrical connection means by means of the screwing-conjunction; the output end of the wire lattice is connected to the corresponding input terminal on the electrical connection means.

25. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 23, wherein the output interface of the induction layer and the interface of the control circuit is a pin-type connection means, or a flexible printed wiring means, or a PIN-PIN connection means, or a welding spot (VGA) thermal-melted connection means, or an ultrasonic welding device, or a solder-plate welding device, or a puncturing connection means.

26. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, wherein a bracket is installed outside the frame of the body, and the body is supported by the bracket.

27. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, 16, 17, 18 or 26, wherein the control circuit is installed in the bracket, the interface electrically connecting with the induction layer is set on the bracket, and the output interface of the induction layer is set at a place in the body corresponding to the interface of the control circuit.

28. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 1, wherein the writing input portion and the covering frame around the writing input portion is made of flexible and windable material, and the body of the electronic whiteboard is windable and portable.

29. The electronic whiteboard with a built-in electromagnetic induction layer of wire lattice according to claim 28, wherein one side of the body is fixed in a spool in which wring-springs for winding up the body are mounted on both ends, and another side of the body is provided with a positioning fastener.

30. The electronic whiteboard with a built-in electromagnetic induction layer of

wire lattice according to claim 1, 16, 17, 18, 28 or 29, wherein said control circuit is installed in the spool.